

# INTERNATIONAL CONFERENCE ON ENERGY EFFICIENT LED LIGHTING AND SOLAR PHOTOVOLTAIC SYSTEMS

**27<sup>TH</sup> -29<sup>TH</sup> MARCH 2014**

**IIT KANPUR**

## TENTATIVE CONFERENCE PROGRAM

<b>CONFERENCE PROGRAM</b> <b>VENUE: OUTREACH AUDITORIUM</b> <b>27<sup>TH</sup> MARCH 2014</b>	
<b>01:00 – 02:00 PM</b>	<b>LUNCH</b>
<b>02:00-03:00 PM</b>	<b>REGISTRATION &amp; VISIT TO SERE</b>
<b>03:00 – 04:00 PM</b>	<b>INAUGURATION OF THE CONFERENCE</b>
<b>04:00 – 04:30 PM</b>	<b>HIGH TEA &amp; INAUGURATION OF THE EXHIBITION</b>
<b>04:30 – 06:00 PM</b>	<b>PANEL DISCUSSION TOPIC: ROLE OF INDIAN CELL MANUFACTURERS ON THE GLOBAL STAGE</b>
<b>07:00 – 08:00 PM</b>	<b>LASER SHOW</b>
<b>08:00 PM - ONWARDS</b>	<b>BANQUET</b>

**CONFERENCE PROGRAM**  
**VENUE: OUTREACH AUDITORIUM**  
**28<sup>TH</sup> MARCH 2014**

09:00 – 9:40 AM	<b>KEY NOTE ADDRESS</b> INORGANIC LED TECHNOLOGY TRENDS IN MANUFACTURING DR GREG LAI, NOVALITE , TAIWAN .
09:40 – 10:20 AM	<b>KEY NOTE ADDRESS</b> NON VISUAL EFFECTS OF LIGHT SUDESHNA MUKHOPADHYAY HEAD, PHILIPS LIGHTING ACADEMY
10:20 – 11:00 AM	<b>KEY NOTE ADDRESS (VIDEO CONFERENCE)</b> LED MARKET AND TECHNOLOGY TRENDS VRINDA BHANDARKAR V-SHARP CONSULTING LLC, USA
11:00 – 11:20 AM	<b>TEA</b>
11:20 – 11:50 AM	INVITED TALK EMERGING LED LIGHTING TECHNOLOGIES – WHITE ORGANIC LIGHT- EMITTING DEVICE FOR LIGHTING AND DISPLAY PROF. C.S. LEE CITY UNIVERSITY OF HONG KONG
11:50 – 12:20 AM	INVITED TALK SOLAR FOR AGRICULTURE THROUGH LED PROF EIICHI ONO , PH.D. TAMAGAWA UNIVERSITY TOKYO
12:20 – 12:50 PM	INVITED TALK LED TESTING & CERTIFICATION DR RAJESH KUMAR, NISE
12:50 – 01:20 PM	INVITED TALK LED DRIVERS - DESIGN CHALLENGES. AMIT JAIN HEAD-DEVELOPMENT , LIGHTING ELECTRONICS & SYSTEMS, PHILIPS
1:20 – 2:20 PM	LUNCH
02.20 – 02:50 PM	<b>POSTER PAPERS SESSION</b> INAUGURATION & PRESENTATION
02:50 – 03:20 PM	INVITED TALK PRINTABLE OPTOELECTRONIC DEVICES: OPPORTUNITIES AND CHALLENGES FOR MATERIAL SCIENTISTS PROF. ANIL KUMAR, IIT BOMBAY
03:20 – 03:50 PM	INVITED TALK EVOLUTION AND CHALLENGES OF LED PACKAGING MV ROY, HEAD, TECHNICAL SOLUTIONS, PHILIPS LUMILEDS
03:50 – 04:10 PM	<b>TEA</b>
04:10 – 04:30 PM	CONTRIBUTORY PAPER LEDs BASED CHARACTERIZATION OF PHOTOVOLTAIC DEVICES M. BLISS*, F. PLYTA, T.R. BETTS, R. GOTTSCHALG, LOUGHBOROUGH UNIVERSITY, UK
04:30 – 04:50 PM	CONTRIBUTORY PAPER COMPUTER SIMULATED APPLICATIONS OF FIREFLY INSPIRED LEDS PARIDHI GUPTA, ANNIE RAJORIA, *NARENDRA KOHLI, HBTI, KANPUR

<p><b>04:50 – 05:10 PM</b></p>	<p><b>CONTRIBUTORY PAPER</b> <b>PREPARATION OF <math>\text{Na}_{0.5}\text{Gd}_{0.5}\text{MoO}_4:\text{Ln}^{3+}</math> PHOSPHOR BY USING MECHANOCHEMICALLY ASSISTED SOLID STATE META-THESIS REACTION METHOD</b> <b>R. KRISHNAN, J. THIRUMALAI, V. MAHALINGAM, A. JOHN PETER</b> <b>B.S. ABDUR RAHMAN UNIVERSITY, CHENNAI, TAMIL NADU</b></p>
<p><b>05:10 – 05:30 PM</b></p>	<p><b>CONTRIBUTORY PAPER</b> <b>PEROVSKITE <math>\text{BaSnO}_3</math> NANOSTRUCTURES BASED DYE-SENSITIZED SOLAR CELL</b> <b>N. RAJAMANICKAM</b> <b>SCHOOL OF PHYSICS, MADURAI KAMARAJ UNIVERSITY, TAMILNADU</b></p>

TIME AM/PM	<p style="text-align: center;"><b>CONFERENCE PROGRAM</b>  <b>VENUE: OUTREACH AUDITORIUM</b>  <b>29<sup>TH</sup> MARCH 2014</b></p>
09:00 – 9:40 AM	<p><b>KEY NOTE ADDRESS</b>            SOLAR PV INSTALLATION IN INDIA –            ISSUES RELATED TO GRID AND DISTRIBUTED OFF GRID SYSTEMS            PROF. KL CHOPRA, EX-DIRECTOR, IIT KHARAGPUR</p>
09:40 – 10:20 AM	<p><b>KEY NOTE ADDRESS</b>            ADVANCES IN C-SI CELL PROCESS SUITABLE FOR NEAR FUTURE            COMMERCIALIZATION            PROF. CHETAN S. SOLANKI, IIT BOMBAY</p>
10:20 – 11:00 AM	<p><b>KEY NOTE ADDRESS</b>            MARKETING TREND IN SOLAR PV            MR. RAHUL BUDHWAR, CTO, TATA POWER SOLAR</p>
11:00 - 11:20 AM	<b>TEA</b>
11:20 – 11:50 AM	<p><b>INVITED TALK</b>            POWER CONVERTERS FOR INTERFACING ALTERNATIVE            ENERGY SOURCES TO UTILITY LINE            PROF. ASHOKA K.S. BHAT            DEPARTMENT OF ELECTRICAL &amp; COMPUTER ENGINEERING            UNIVERSITY OF VICTORIA, CANADA</p>
11:50AM – 12:20 PM	<p><b>INVITED TALK</b>            SOLAR POWER PRODUCTS -AN OPPORTUNITY FOR EMPLOYMENT            GENERATION IN INDIA            RAJINDER K KAURA, VICE PRESIDENT , SESI. INDIA.</p>
12.20 – 12.50 PM	<p><b>INVITED TALK</b>            DESIGN AND INTEGRATION OF OFF-GRID PV SYSTEMS FOR HOME AND            COMMERCIAL INSTALLATION            PROF. AK SINHA, IIT KHARAGPUR</p>
12:50 – 01:20 PM	<p><b>INVITED TALK</b>            DEVICE ENGINEERING FOR SMALL MOLECULAR AND POLYMER            PHOTOVOLTAIC DEVICES            PROF. VELLAISAMY ROY,            CITY UNIVERSITY OF HONG KONG</p>
01:20 – 02:20 PM	<b>LUNCH</b>
02:20 – 02:50 PM	<p><b>INVITED TALK</b>            DYE SENSITIZED SOLAR CELLS BASED ON METAL FREE ORGANIC DYES:            MATERIALS AND RECENT ADVANCES            PROF. GD SHARMA,            JAIPUR ENGINEERING COLLEGE</p>
02:50 – 03:20 PM	WORKING MODEL CONTEST
03:20 – 03:40 PM	<b>TEA</b>
03:40 – 04:00 PM	<p style="text-align: center;">ROAD BLOCKS FOR SOLAR PV DEVELOPMENT IN INDIA            SAURABH KUMAR, J.K JAIN, B.K KARMAKAR, GAURAV KUMAR, MONIKA            FIEM INDUSTRIES LTD, ,SONEPAT, HARYANA</p>
04:00 – 04:20 PM	<p><b>CONTRIBUTORY PAPER</b>            DEPENDENCE OF WAVELENGTH SELECTIVITY OF HOLOGRAPHIC PV            CONCENTRATOR ON PROCESSING PARAMETERS            ABHIJIT GHOSH, A.K. NIRALA &amp; H.L. YADAV            BIOMEDICAL OPTICS LAB, DEPARTMENT OF APPLIED PHYSICS, ISM</p>

	<b>DHANBAD</b>
<b>04:20 – 04:40 PM</b>	<b>CONTRIBUTORY PAPER</b> <b>A HIGH EFFICIENCY POWER CONVERTER FOR PHOTO-VOLTAIC APPLICATIONS</b> <b>SUNKARA SURESH, VELAPPAGARI SEKHAR, KANTE VISWESWARA, YANAMALA DAMODHARAM</b> <b>EEE DEPARTMENT, KUPPAM ENGINEERING COLLEGE, KUPPAM-CHITTOOR , ANDHRA PRADESH</b>
<b>04:40 – 05.00 PM</b>	<b>CONTRIBUTORY PAPER</b> <b>GRID CONNECTED CASCADED MULTILEVEL INVERTER FOR PHOTOVOLTAIC APPLICATION</b> <b>RAJASEKAR S AND RAJESH GUPTA</b> <b>EE, M. N. NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD</b>
<b>05:00 – 5:15 PM</b>	<b>PRESENTATION OF POSTER PAPERS &amp; WORKING MODEL CONTEST AWARDS</b>
<b>05:15 – 05:30 PM</b>	<b>VALEDICTORY</b>

## Poster Paper Presentation

S.No.	Code No.	Author's Name	Title
1	CPVS-1	Kante Visweswara Velappagari Sekhar P. Kiran Kumar	An Investigation of Incremental Conductance based Maximum Power Point Tracking for Photovoltaic System
2	CPVS-7	B.Naresh,KRK Prasad	Adaptive Neuro Fuzzy Based MPPT with Modified Regula Falsi Algorithm for solar power system
3	CPVS-13	Ayush Munjal, Souvik Ganguli, Shripad Wachasundar	A Simplistic approach to PV Emulator
4	CPVS-18	Shivam Srivastava, Deepak Sahu & R.S. Anand	Design and Implementation of Real Time Data Acquisition, Display and Analysis System for Field Performance Evaluation of Different Photovoltaic Technologies
5	CPVS-20	S.Lenin Prakash, M.Arutchelvi, D.Kalyanraj	Digital Implementation of Controller for PV Array fed Inverter Interfaced with Grid
6	CPVS-21	Nidhi Singh,Sumedha Sengar, R.S.Anand	Full and Partial Shading Effects on Modules and Strings on Solar Photovoltaic System Performance
7	CPVS-22	Sumedha Sengar, Nidhi Singh, R.S. Anand	Design & Optimization of Off-Grid Photovoltaic System for a Typical Indian house hold
8	CPVS-23	Chandra Shekhar Singh	Comparison of different control technique in Switched Inductor Quasi Z Source Inverter
9	CPVS-26	Lenin Prakash, Arutchelvi Meenakshi Sundaram	A simplified time-domain design of a cascaded PI-sliding mode controller for dc-dc converters used in off grid Photovoltaic Applications
10	CPVS-28	Gobind Pillai*1, R. S. Anand2, Nicola Pearsall1, Ghanim Putrus1, Tatiani Georgitsioti1, Ian Forbes1, R. Pon Perumal2, Shivam Srivastava2	Role of Routine Visual Inspection in Performance Monitoring of Photovoltaic (PV) Systems
11	CPVS-31	Manoj Jhawar, Deepak Nirwal, Prashant Porwal	Renewable Energy -Environmental and Social impact in India
12	CPVD-1	Lokendra Kumar and Monika Mall	Improving the performance of ZnO/P3HT inverted architecture hybrid solar cell by post annealing and ZnS incorporation
13	CPVD-2	A. Subramania* Mohammad Rameez, K. Saranya	Development of Ni-Co decorated CNFs as a novel low cost counter electrode for dye-sensitized solar cells
14	CPVD-3	S. Thiruvenkadam, A. Leo Rajesh	Effect of precursor solution pH on the structural and optical properties of spray pyrolysed CuSbS <sub>2</sub> thin films
15	CPVD-8	S. M. Giripunje*, Jyoti Ghushe,	I-V Characterization of Chemically Bath Deposited

16	CPVD-9	Mahima Arya, Anirban Mitra	Study the Growth Mechanism of Pulsed Laser Deposited Ag Nanoparticles For Plasmonic Solar Cells Application
17	CPVD-15	T. Bhim Raju, Ashish Singh and Parameswar K. Iyer	A new n-type PDI-based semiconducting polymer as electron acceptor in bulk heterojunction solar cell.
18	CPVD-16	Akansha Bansal, Pooja Srivastava and B.R.Singh	Surface passivation properties of Al <sub>2</sub> O <sub>3</sub> for enhanced c-silicon solar cell efficiency
19	CPVD-17	Sumana Bhattacharjee	Graphene And Terahertz For Solar Industry
20	CPVD-18	B. Ghosh, D. Ghosh, S. Hussain <sup>1</sup> , R. Bhar and A.K. Pal*	p-DLC layer on n-Si substrates for photovoltaic application
21	CPVD-19	D. Ghosh, B. Ghosh, S. Hussain <sup>1</sup> , B. R. Chakraborty <sup>2</sup> , R. Bhar and A. K. Pal*,	Effect of nano-Ag plasmonic layer on the performance of p-Si/CdS and InP/CdS solar cells
22	CLED-3	Nakkeeran M, Thenmozhi R	Studies on Harmonics Distortion Control and Power Factor Improvement in High Power LED Lamps for Economy and Efficiency
23	CLED-6	Dipjyoti Das <sup>1</sup> , Debojit Hazarika <sup>2</sup> , Ashish Singh <sup>1</sup> , Anamika Dey <sup>1</sup> and Parameswar K. Iyer <sup>1,2,*</sup>	Polymer / Organic light-emitting diode (PLED / OLED) based on new polyfluorene derivatives
24	CLED-7	Anshika Saxena, Madhu Rawat, R.S Anand	Emission Color Tuning in Organic Light Emitting Diodes
25	CLED-9	Asit Prakash, Monica Katiyar	White polymer light emitting diodes for lighting – An overview
26	CLED-10	Rahul K Sharma, Deepak, Monica Katiyar*	Extraction of light from Organic Light Emitting Diodes: Present Status